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GOVERNMENT OF INDIA  
BHABHA ATOMIC RESEARCH CENTRE  
Chemical Technology Group  
Control Systems Development Division

Ref: - ChTG/CSDD/PR/2022/115


08.03.2022

To,

**Subject:** Minor Fabrication / ~~Repairs~~, invitation of quotation for 'Semi-automated tube forming system as per Annexure- 1'.

Dear Sir,

1. Quotations are invited for minor fabrication/ ~~repairs~~ jobs as per the enclosed Technical specifications and General Terms & Conditions as per the Annexure-1. Bidder can contact following officer for technical details and clarification.  
-Dr. Prabhat Ranjan, email ID: pranjan@barc.gov.in, Phone:022-25591742.
2. Bidder shall quote for fabrication of these items.
3. Taxes and excise duties should be quoted separately.  
Form "H" will be provided wherever necessary.
4. The Quotation must reach Head Control System Development Division by 16/03/202 by 17:00hrs through **SPEED POST** (India Post, Govt. of India) and must be sent in the sealed envelope super scribed with the above reference number and the due date given above. Also the name of the work should be displayed on the envelope.
5. The address on the envelope should read: -  
Attn: Dr. Prabhat Ranjan (SO-F)  
Control Systems Development Division, ChTG, Cel-V  
Bhabha Atomic Research Centre,  
Mumbai - 400 085,
6. The bidder shall have to take an insurance policy against any material issued to him by the purchaser.
7. The Fabrication / ~~Repair~~ work shall be subjected to inspection by our Engineer at CEL-5, BARC.
8. The bidder shall deliver finished components/equipments after approval of our Engineer within one month from the date the firm work order is placed with the bidder.
9. Head, CSDD, BARC reserves the right to accept or reject any or all the quotations without assigning any reason.

  
(Prabhat Ranjan)  
SO-F, CSDD  
BARC, Trombay

वैज्ञानिक अधिकारी (F) / Scientific Officer (F)  
नियंत्रण प्रणाली विकास प्रभाग,  
Control Systems Development Division,  
रासायन प्रौद्योगिकी वर्ग / Chemical Technology Group,  
भा. प. अ. कें. मुंबई / B.A.R.C., Mumbai - 400 085

## Annexure-1

### **TECHNICAL SPECIFICATION AND GENERAL TERMS AND CONDITIONS**

A: **Job Title:** Minor Fabrication / ~~Repairs~~, invitation of quotation for Fabrication of ‘Semi-automated tube forming system as per Annexure- 1’.

#### **B. Job description**

Semi-automated tube forming system as per the technical details shown in Annexure-1a.

#### **C. Scope of Work**

Manufacturing, inspection, testing, packaging and safe delivery at following address.

Dr. Prabhat Ranjan (SO-F)  
Control Systems Development Division, ChTG, Cel-V  
Bhabha Atomic Research Centre,  
Mumbai - 400 085,

#### **D. Technical Notes**

The system comprises two parts. The first part is manual bender and the second part is automated press system with following attributes;

- Manual Bender to maintain bent RoC:18.8mm+/-0.2mm
- Automatic press system: Loading capacity upto 2kN or higher, Tactful touching by using three points. It will have feature to set
- Cutting +grinding system [Carbide Cut Of Wheel, Abrasive Grade: Diamond, Thickness:0.7mm, Finishing: fine] with time based auto-cutting mode.

**E. Quantity:** 1set which consists “1 manual bender+1 automated press system with cutting and grinding modules”.

#### **F. Free issue materials:**

All the materials shall be procured by the vendor.

**G. Completion period** : one month from the date of receipt of work order.

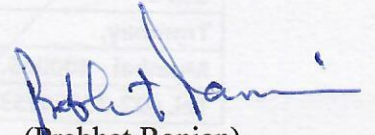
**H. Charges:** Contractor shall quote lump sum as well as the break up of price for the execution of the complete job. The price quoted shall remain valid at least for one month time from the date of offer.

#### **I. Terms of payments :**

- 1) No advance payment shall be made.



- 2) Full payments shall be made only after completion of the job.
- 3) Payment shall be made through cheque or on-line transfer in favour of the contractor and Accounts Officer, BARC, shall issue the same.
- 4) The fabricator shall have to submit in advance duly signed and stamped receipt along with the bills, for the immediate payment.
- 5) Please quote the PAN Registration number & GST registration number.



(Prabhat Ranjan)  
SO-F, CSDD  
BARC, Trombay

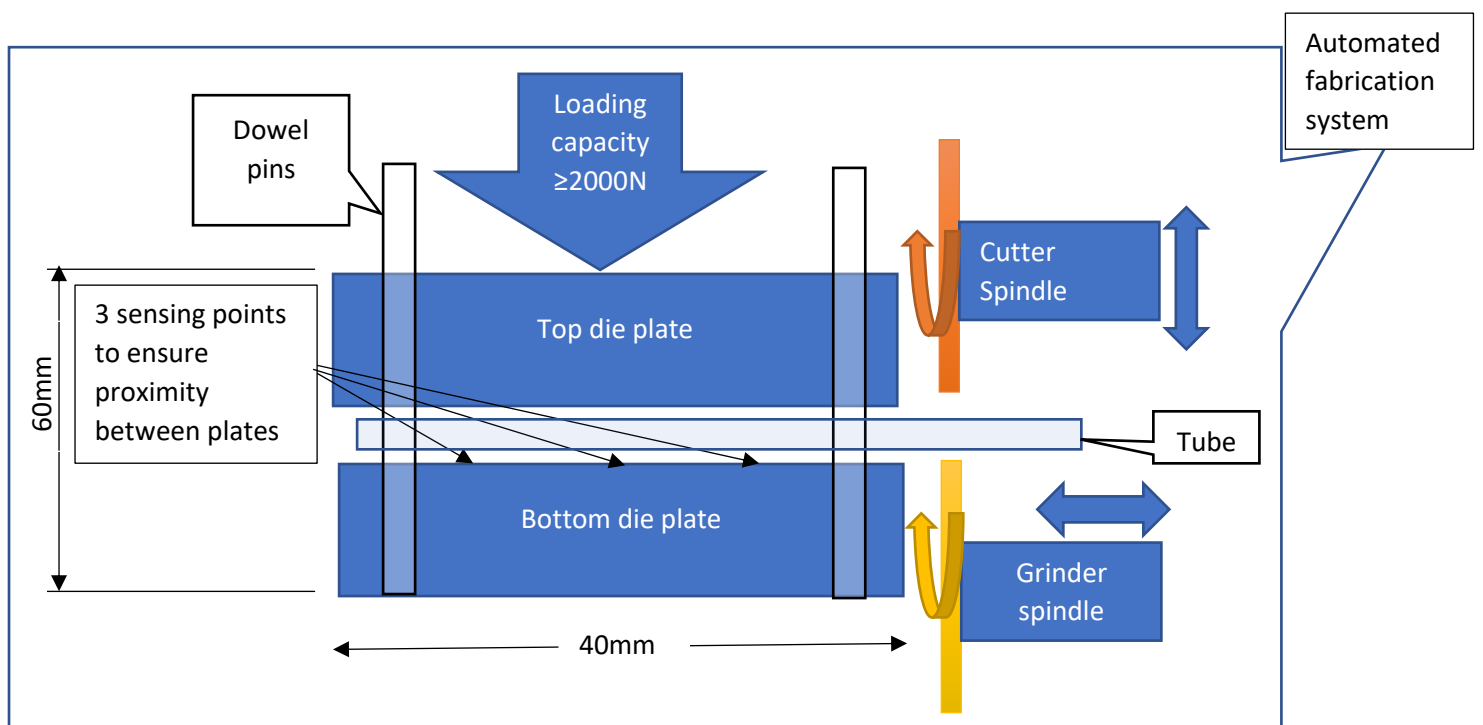
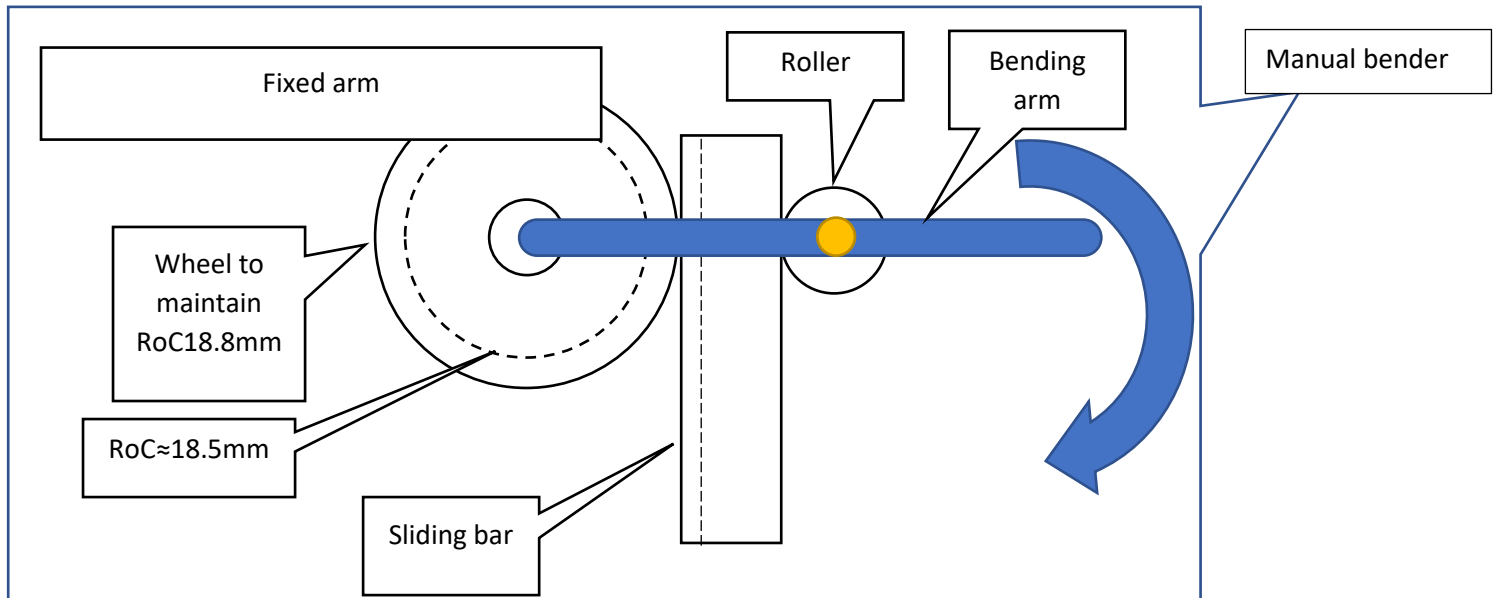
**वैज्ञानिक अधिकारी (F) / Scientific Officer (F)**  
नियंत्रण प्रणाली विकास प्रभाग,  
**Control Systems Development Division,**  
रसायन प्रौद्योगिकी वर्ग / Chemical Technology Group,  
बरोडें रोड / BARC, Mumbai - 400 085



# Annexure1a

## Tube forming system (semi-automated): schematic details

- 1) Manual Bender to maintain bent RoC:18.8mm
- 2) Press system: Loading capacity upto 2kN or higher, Tactful touching by using three points
- 3) Cutting +grinding system [Carbide Cut Of Wheel, Abrasive Grade: Diamond, Thickness:0.7mm, Finishing: fine]



This system will carry out pressing work with tactful sensing (to ensure proximity between dies)  
→Cutter will cut extra length of tube after 20s of press → Grinder will do face grinding of the cut surface → at last, Die plate will return back for removal of the finished tube.

Tube size: OD6.35mm, ID5.35 length100mm, 90° bent with 18.8mm RoC (radius of curvature), MTL:Al6063